

**To:** Boykin, Michael[Boykin.Michael@epa.gov]  
**From:** Calanog, Steve  
**Sent:** Thur 8/20/2015 10:22:01 PM  
**Subject:** Re: Irrigation Ditch Flushing Sampling

I'd err on less than too much - my opinion

Sent from my iPad

On Aug 20, 2015, at 4:20 PM, Boykin, Michael <[Boykin.Michael@epa.gov](mailto:Boykin.Michael@epa.gov)> wrote:

Yes, tonight there will at least be the minimum. Struggling with balance between too little and too much guidance.

Sincerely,

Mike

Michael Boykin

Federal On-Scene Coordinator (FOSC)

US EPA Region 10

Emergency Management Program

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**From:** Calanog, Steve  
**Sent:** Thursday, August 20, 2015 3:14 PM  
**To:** Boykin, Michael  
**Cc:** Ruhl, Christopher; Moxley, Bret  
**Subject:** Re: Irrigation Ditch Flushing Sampling

This a request of us by the Administrator in anticipation of "opening" the river this weekend.

Timely? Is tonight out of the question?

v/r

Steve Calanog

Federal On-Scene Coordinator

US EPA Region IX

415-595-8350

Sent from my iPhone

On Aug 20, 2015, at 4:07 PM, Boykin, Michael <[Boykin.Michael@epa.gov](mailto:Boykin.Michael@epa.gov)> wrote:

Just so I understand, what are you calling timely? Is there a meeting tonight or tomorrow which is driving this?

Sincerely,

Mike

Michael Boykin

Federal On-Scene Coordinator (FOSC)

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**From:** Ruhl, Christopher  
**Sent:** Thursday, August 20, 2015 3:02 PM  
**To:** Boykin, Michael  
**Cc:** Calanog, Steve; Moxley, Bret  
**Subject:** Re: Irrigation Ditch Flushing Sampling

Thanks timing is critical as we would want the communication to the Navajo to be in time to implement. Also, welcome to the response!

Sent from my iPhone

On Aug 20, 2015, at 3:54 PM, Boykin, Michael <[Boykin.Michael@epa.gov](mailto:Boykin.Michael@epa.gov)> wrote:

Yes sir, working on it but not sure it will be done before Wilson demobes at the end of today. Heister is in contact with the San Juan County Extension agent who led the effort in New Mexico and who is looking for the state engineers plan used in those flushing efforts.

Sincerely,

Mike

Michael Boykin

Federal On-Scene Coordinator (FOSC)

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**From:** Calanog, Steve  
**Sent:** Thursday, August 20, 2015 2:23 PM  
**To:** Moxley, Bret; Boykin, Michael  
**Cc:** Ruhl, Christopher  
**Subject:** Irrigation Ditch Flushing Sampling

Bret/Mike and all - Here is a summary of the irrigation ditch flushing sampling guidance that was utilized. Please review it and add any other aspects that you think important (i.e., EPA Test Methods) (Have Weston there review it as well). I suggest making a formal email transmittal of this by Wilson Yee (EPA LNO) to his counterpart(s) at the NNEPA/BIA Unified Command AND cc myself, Chris Ruhl, Dave Ostrander, Laura Williams, and Enrique Manzanilla (at the very least). The Administrator committed to President Begaye to getting this technical information to the Navajo ASAP. If you have any questions please call me. Thanks

Cut and paste the below text:

"The following is what was utilized in New Mexico for sampling guidelines for irrigation ditch flushing activities:

- For each ditch prior to flushing, in an area proximate to the river, soil samples were taken from an area that appeared to be impacted and from an area that appeared to be not impacted. A corresponding background soil sample to the ditch was also taken. These were analyzed for metals.
- The head gates were closed, if opened, and the ditches were allowed to be filled with water. Once filled a surface water sample was taken. The head gates were open and the ditches were allowed to be flushed for 12 hours (or more). Once flushed the head gates were closed.
- A final visual observation was conducted with local authorities. "